

Docket No.: PBLI-P05-005

This is a continuation of U.S. Serial No.: 08/489,071 filed
6/9/95Title: Modified Interferons
Atty: William G. Gosz
Reg. No. 27,787ATGGCCTTG
MetAlaLeu
-23

9

10	TCCTTTCTTACTGATGGTCGTGCTGGTACTCAGCTACAAATCCATCTGCTCTGGC SerPheSerLeuLeuMetValValLeuValLeuSerTyrLysSerIleCysSerLeuGly -20	-10	-1	69
70	TGTGATCTGCCTCAGACCCACAGCCTGCGTAATAGGAGGGCCTGATACTCCTGGCACAA CysAspLeuProGlnThrHisSerLeuArgAsnArgArgAlaLeuIleLeuLeuAlaGln 1 10 20			129
130	ATGGGAAGAATCTCTCCTTCTCCTGCTGAAGGGACAGACATGAATTGAGATTCCCAGAG MetGlyArgIleSerProPheSerCysLeuLysAspArgHisGluPheArgPheProGlu 30 40			189
190	GAGGAGTTGATGCCACCAGTTCCAGAACGACTCAAGCCATCTGTCCTCCATGAGATG GluGluPheAspGlyHisGlnPheGlnLysThrGlnAlaIleSerValLeuHisGluMet 50 60			249
250	ATCCAGCAGACCTTCAATCTCTCAGCACAGAGGACTCATCTGCTGCTGGAACAGAGC IleGlnGlnThrPheAsnLeuPheSerThrGluAspSerSerAlaAlaTrpGluGlnSer 70 80			309
310	CTCCTAGAAAAATTTCACACTGAACCTTACC <u>AGCAACTGAATGACCTGGAAGC</u> ATGTGTG LeuLeuGluLysPheSerThrGluLeuTyrGlnGlnLeuAsnAspLeuGluAlaCysVal 90 100			369
370	ATACAGGAGGTTGGGTGGAAGAGACTCCCCTGATGAATGAGGACTCCATCCTGGCTGTG IleGlnGluValGlyValGluGluThrProLeuMetAsnGluAspSerIleLeuAlaVal 110 120			429
430	AGGAAATACTTCAAAGAACACTCTTATCTAACAGAGAACATACAGCCCTTGCC ArgLysTyrPheGlnArgIleThrLeuTyrLeuThrGluLysTyrSerProCysAla 130 140			489
490	TGGGAGGTTGTCAGAGCAGAAATCATGAGATCCCTCTCGTTCAACAAACTTGCAAAAA TrpGluValValArgAlaGluIleMetArgSerLeuSerPheSerThrAsnLeuGlnLys 150 160			549
550	AGATTAAGGAGGAAGGATTGA 570 ArgLeuArgArgLysAspEnd 166			

Fig. 1. Nucleotide and Amino Acid Sequence of Hu-IFN- α 001. The location of the *Alw*NI site is underlined. The signal peptide is shown as the 23 amino acids labeled -1 to -23.

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1	MALSFSLMVLVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF	50
1	MARSFSLMVLVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF	50
51	SCLKDRHEFRFPEEEFDGHQFQKTQAIISVLHEMIQQTFNLFSTEDSSAAW	100
51	SCLKDRHEFRFPEEEFDGHQFQKTQAIISVLHEMIQQTFNLFSTEDSSAAW	100
101	EQSLLEKFSTELYQQLNDLEACVIQEVGVEETPLMNEDSILAVRKYFQRI	150
101	EQSLLEKFSTELYQQLNDLEACVIQEVGVEETPLMNEDFILAVRKYFQRI	150
151	TLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRKD	189
151	TLYLMEKKYSPCAWEVVRAEIMRSFSFSTNLKKGLRRKD	189

Fig. 2. Comparison of the Protein Sequence of Hu-IFN- α 001 with that of Hu-IFN- α J. The signal peptide represents the first 23 amino acids at the amino terminus.

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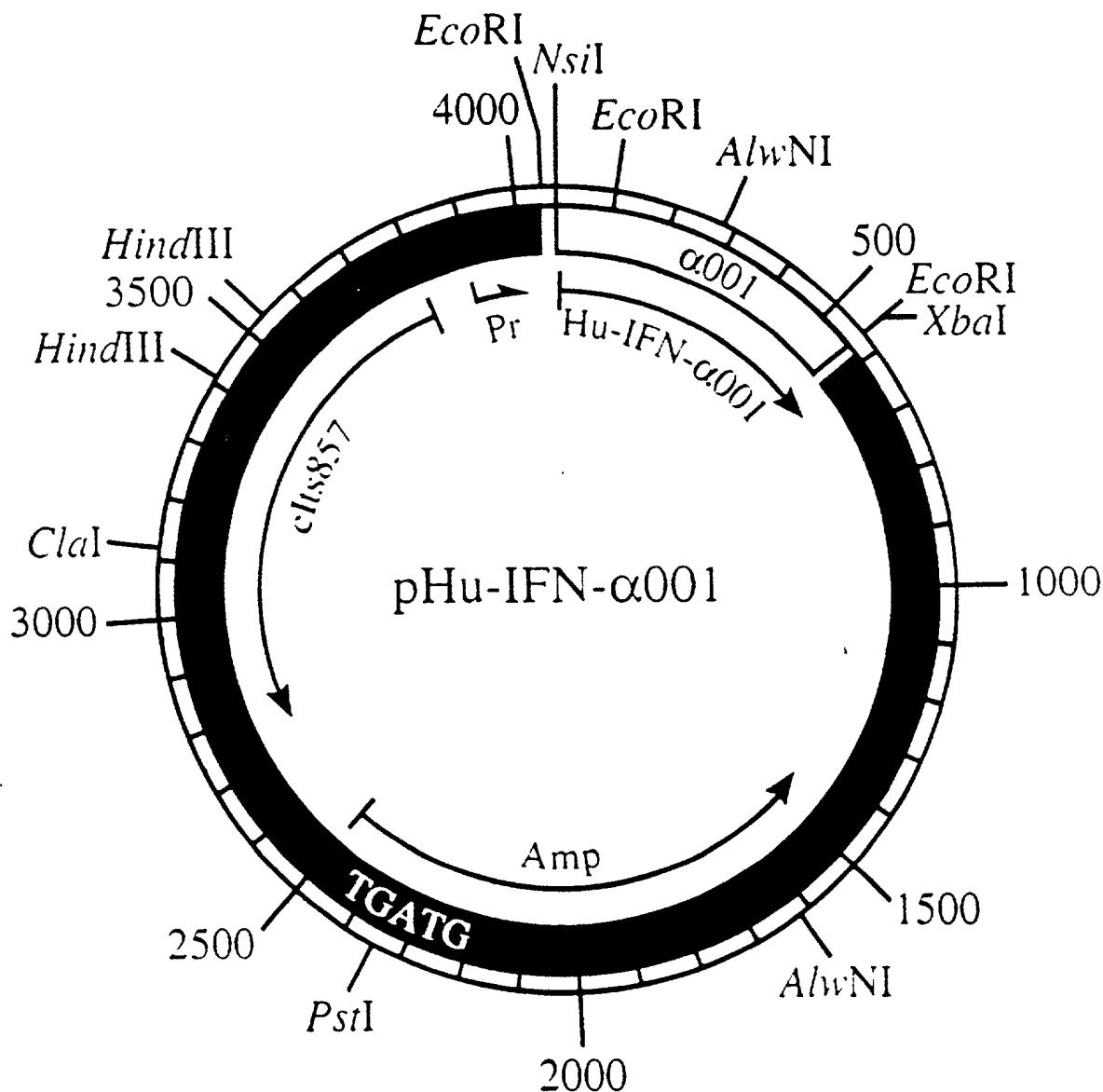


FIG. 3. Expression vector for Hu-IFN- α 001. The structure of the plasmid pHu-IFN- α 001 is shown. The *Nsi*I site represents nucleotide position =1. The *P_r* promoter drives expression of Hu-IFN- α 001.

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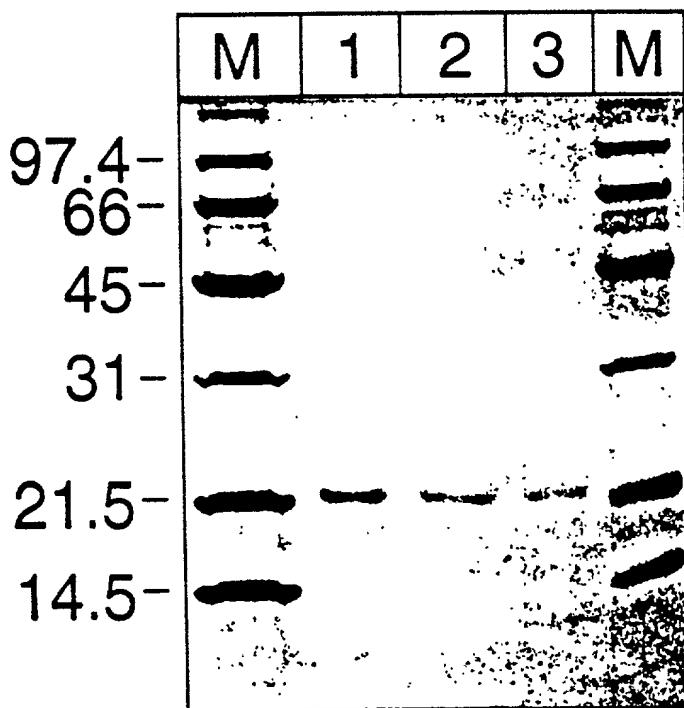


Fig. 4. SDS-Polyacrylamide Gel Electrophoresis of the Purified Hu-IFN- α 001. Hu-IFN- α 001 was placed in lanes 1, 2 and 3 in amounts of 3 μ g, 1.5 μ g and 0.75 μ g, respectively. The columns labeled M represent the molecular weight markers with the values in kilodaltons given to the left of each respective molecular weight marker.